

# Allen Zhao

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## Skills & Abilities

### Programming Languages

Java, Python, HTML3 & CSS, JavaScript, Bash

### Technologies

Firebase, Firestore, Arduino, Visual Studio, Windows Subsystem for Linux, Git,

### Languages

Fluent in Mandarin Chinese, Intermediate level in Japanese

## Education

### College of Staten Island - City University of New York |

Anticipated Graduation in Computer Science BS: May 2027

### Relevant Coursework |

AP Computer Science A, High Performance Computing (CSC 229)

## Experience

### All Star Code | *Student* |

July 11th 2022 – August 22nd 2022

- All Star Code is a non profit that aims to close the wealth gap in technology for young men of color, and offers a summer program for coding and programming.
- Collaborated within a group to create Recyclinator, which aims to close the social issue of electronic waste not being disposed of properly by using the Google Maps API and showing nearby recycling centers.
- Reinforced my understanding of JavaScript, HTML5, and CSS.

### RBH Services| *Tutor* | November 2021 - May 2022

- Assisted students K-8 with homework and reinforced their core understanding.
- Worked within a group setting on weekdays with students where they would communicate with me when they needed assistance.
- Created a friendly environment for students of all ages in which they collaborate.

## Projects & Interests

### Software Engineering Program 12 Freedom Project

June 2023

- Created a glove that translates the American Sign Language using Arduinos, Python, and C++.
- Utilized Flask HTTP servers to allow communication between the Arduinos and the host computer.
- Trained a neural network model using TensorFlow and Scikit-learn to interpret input that was inputted by the user by using the gloves.

### HackNYU 2023 | *Hacker* |

February 18th 2023 – February 19th 2023

- Utilized Firebase, Firestore, and P5.js to create an interactive and collaborative vocabulary reviewing game.

### Software Engineering Program 11 Freedom Project

June 2022

- Developed a social media-esque style web application that uses FirebaseAuth and Firestore.
- Included a registration/login page that redirects you to the main page once authentication is complete.
- Used Firestore to store user input and allowed the user to manipulate data on the backend in real-time.

### Software Engineering Program 10 Freedom Project

June 2021

- Developed an informative website regarding solid state battery technology.
- Utilized HTML & CSS to make an aesthetically coherent informative site for a public presentation.

